

CLAIMS

1. Cast part with high creep resistance, made from an alloy with the following composition (% by weight):

Mg < 0.1

Si: 4.5 - 10

5 Cu: 2.0 - 5.0

Ni < 0.4

Ti: 0.03 - 0.25

Zr: 0.05 - 0.25

Fe < 0.9

10 Zn < 0.3

Possibly V: 0.02 - 0.30

Mn: 0.1 - 0.5

Hf, Nb, Ta, Cr, Mo and/or W: 0.03 - 0.30

15 other elements < 0.10 each and < 0.30 total, the remainder being aluminium.

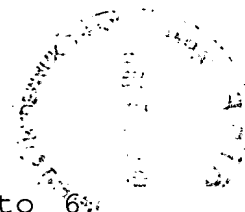
2. Cast part according to claim 1, characterised in that the magnesium content is less than 0.03%.

3. Cast part according to either claim 1 or 2, characterised in that the copper content is between 3% and 4%.

4. Cast part according to one of claims 1 to 3, characterised in that the nickel content is less than 0.1%.

5. Cast part according to one of claims 1 to 4, characterised in that the iron content is less than 0.3%.

6. Cast part according to one of claims 1 to 5, characterised in that the zinc content is less than 0.1%.



7. Cast part according to one of claims 1 to 6,  
characterised in that the zirconium content is between  
0.12% and 0.20%.

8. Cast part according to one of claims 1 to 7,  
5 characterised in that the titanium content is between  
0.08% and 0.20%.

9. Cast part according to one of claims 1 to 8,  
characterised in that the vanadium content is between  
0.04% and 0.20%.

10 10. Cast part according to one of claims 1 to 9,  
characterised in that the manganese content is between  
0.15% and 0.40%.

11. Cast part according to one of claims 1 to 10,  
characterised in that it is an insert for a hot part of  
15 a traditionally alloyed part.

12. Cast part according to one of claims 1 to 10,  
characterised in that it is a cylinder head for an  
internal combustion engine.